

DELTA SYNCHRONIZATION WITH SIMPLESYNC



full delta synchronization (v): to only synchronize directory changes (deltas) from one directory to another; a quick synchronization process that saves time and bandwidth

Out with the Old and in with the New... & Better

In the early days, SimpleSync did full delta synchronizations to save valuable processing time and bandwidth. Unfortunately, it turns out that full delta synchronization runs are actually more time consuming, unreliable, and inefficient in the long run.

Seriously, who really wants to... ?

- run a full synchronization every few days to make sure that all records and deltas were processed
- “un-sync” and “re-sync” directories to recover lost destination records because they lost deltas
- be the administrator who had to monitor and scrutinize every synchronization run to make sure everything processed correctly

Thankfully, there is a straightforward solution. Read the entire source directory and then only processes the deltas. This way, the synchronization run is consistent and accurate yet still quick. This is what SimpleSync does. It also processes configuration changes without “un-syncing” and “re-syncing”. And, if for some reason connection data is lost, SimpleSync switches to recovery mode and stabilizes in 2 cycles without data loss.

Offices Scattered Around the Globe

It's common to install one copy of SimpleSync near the largest or central directory. Because it extracts the directory information to an LDIF file, the data is kept in the same format as if it was being read directly from the server. SimpleSync then references the LDIF file to generate deltas for remote destination directories. This is a much more effective synchronization process, and the best of both worlds. Especially when dealing with low bandwidth connections.

For example:

Many remote/field offices still connect with ISDN lines and satellites. Sometimes connections drop in the middle of a synchronization run, it's happened to all of us. The SimpleSync solution? Install a copy of SimpleSync at each end of a low bandwidth connection and run “push only” synchronizations. SimpleSync reads the entire local directory, processes, and then pushes deltas to the remote destination directory(s). It then reads the entire remote directory(s) and pushes delta records back to the local directory.

Whatever your environment, SimpleSync's modular design is meant to mix and match to suit your needs. Questions? Email us at sales@dirwiz.com. We're more than happy to help find a solution that suits your environment.